

DEPARTMENT OF THE NAVY

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From: Director, Theater Network Operations and Security Center (TNOSC),

Naval Computer and Telecommunications Station (NCTS), Naples,

Italy

To: ONE-NET Subscribers

Subj: USE/TOPOLOGY OF ONE-NET DIGITAL SENDERS

Encl: (1) Basic ONE-NET Digital Sender Topology

Purpose

To promulgate the use and the basic topology of Digital Senders

Overview

- 1. The Digital Sender is a device that connects directly to the network via a Virtual Local Area Network (VLAN) allowing users to send documents electronically without being managed by a desktop computer. It also allows the documents to be sent to multiple parties at one time. Once stored, the documents can be available for future retrieval.
- 2. Digital Senders convert paper documents into digital information (.PDF, .HTML, .RTF format file) to be sent by email. The data from the Digital Sender VLAN is sent to the DNS (Domain Name System) server that translates domain names into IP addresses and ensures that the recipient email address is valid. The SMTP information from the data is extracted and used by the MS-Exchange server to create and send an email to the appropriate mail recipient.
- 3. To ensure security during transmission, the unit encrypts data before leaving the device, protecting it from access and ensuring a safe arrival at its destination.
- 4. In order to access a digital sender, the user must enter their network user name and password which is authenticated by the network. This level of access security has been implemented to safeguard both the sender and the recipient from malicious dissemination of data.
- 5. Bi-directional traffic (capability of operating in either of two directions which are the opposite of each other) is not possible. Data can only go in one direction (from the digital sender, through the DNS and MS Exchange Servers, to the email recipient) due to port blocking via MAC management, IP management, and naming convention. The basic digital sender topology is shown in Encl (1).

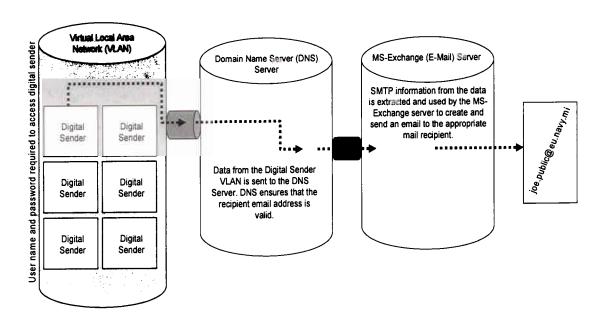
The only recommended manufacturer and models for procurement at this time are the Hewlett Packard 9100C and Hewlett Packard 9200c.

- 6. Should you have any questions or comments about this memorandum, contact the TNOSC Business Operation Office.
- 7. This memorandum supersedes all other previous, same subject.

Mark F. BIBEAU

LCDR US

Basic Digital Sender Topology



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Encl(1)